



Europäisches Patentamt  
European Patent Office  
Office européen des brevets

Publication number:

**0 098 592**  
**A2**

12

## EUROPEAN PATENT APPLICATION

Application number: **83106571.9**

Int. Cl.<sup>3</sup>: **A 61 M 5/00**

Date of filing: **05.07.83**

Priority: **06.07.82 JP 118114/82**  
**19.07.82 JP 126504/82**  
**19.07.82 JP 126505/82**

Date of publication of application: **18.01.84**  
Bulletin 84/3

Designated Contracting States: **BE CH DE FR GB IT LI**  
**NL SE**

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**Portable artificial pancreas.**

A portable artificial pancreas comprising a blood sugar detecting unit including electrode means to be inserted into the living body for measuring the blood sugar of the living body, an injection unit including a container for a blood sugar control agent and a feed pump for the control agent and adapted to inject the control agent into the living body, and an arithmetic control unit including a microcomputer for calculating the blood sugar value from an output signal from the detecting unit and the dose of the control agent based on the value and controlling the pump of the injection unit in accordance with the result of calculation. An assembly including the blood sugar detecting unit and an assembly including the injection unit and the arithmetic control unit are separate from each other and are individually attached to the body. The output signal of the detecting unit is transmitted to the control unit by radio.

EP 0 098 592 A2



















































































































